UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

03/11/2008

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

ASSAF, FAYEZ G

ART UNIT PAPER NUMBER

2872

DATE MAILED: 03/11/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560.344	12/12/2005	Takuva Tsukagoshi	126284	9365

TITLE OF INVENTION: HOLOGRAPHIC RECORDING SYSTEM AND OPTICAL CHOPPER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/11/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further ndicated unless correcte naintenance fee notifica	correspondence including ed below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new con	of ma rrespo	intenance fees will ondence address; a	ll be 1 and/or	mailed to the current of (b) indicating a separ-	orrespondence address as ate "FEE ADDRESS" for
		ock 1 for any change of address)	F	Fee(s) papers	Transmittal. This Each additional	certifi paper,	icate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
OLIFF & BER P.O. BOX 3208; ALEXANDRIA		/2008	I	herel	Certi by certify that this Postal Service wit	ficate Fee(s	of Mailing or Transm ) Transmittal is being	deposited with the United class mail in an envelope bove, or being facsimile te indicated below.
								(Depositor's name)
			-					(Signature)
			L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	1	ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/560,344	12/12/2005	ODDING CVCTEM AND	Takuya Tsukagoshi				126284	9365
TILE OF INVENTION		ORDING SYSTEM ANI						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	JE I	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0			\$1740	06/11/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
ASSAF, I		2872	359-011000					
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a si registered attorney (2 registered patent a	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e pate an as ITY a	ent. If an assignee signment. .nd STATE OR CC	OUNT	RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	inted on the patent):	<b>□</b> I₁	ndividual 🖵 Cor	porati	on or other private grou	p entity Government
a. The following fee(s)  Issue Fee Publication Fee (N Advance Order - :	<ul> <li>Payment of Fee(s): (F</li> <li>A check is enclose</li> <li>Payment by credit</li> <li>The Director is her overpayment, to Do</li> </ul>	ed. card. reby a	Form PTO-2038 i	is atta	ched. equired fee(s), any defi			
_ ` .	<b>tus</b> (from status indicated as SMALL ENTITY state		□ h Applicant is no l	longe	r claiming SMALI	ENT	TTY status. See 37 CFl	2 1 27(a)(2)
OTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other tha					assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No			
n application. Confiden ubmitting the completed ais form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is depending upon the in e Chief Information Of	estin idivid ficer	nated to take 12 mi lual case. Any com ILS Patent and T	inutes iments radem	to complete, including s on the amount of time tark Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/560,344 12/12/2005		Takuya Tsukagoshi	126284	9365	
25944 75	590 03/11/2008	EXAMINER			
OLIFF & BERR	IDGE, PLC	ASSAF, FAYEZ G			
P.O. BOX 320850		ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	7A 22320-4850	2872			
		DATE MAILED: 03/11/2008			

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 393 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 393 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/560,344	TSUKAGOSHI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Fayez G. Assaf	2872		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet we (OR REMAINS) CLOSED in or other appropriate comm IGHTS. This application is:	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS		
1. $\boxtimes$ This communication is responsive to <u>the application filed 1</u>	<u>2/12/2005</u> .			
2. ☑ The allowed claim(s) is/are <u>1-17</u> .				
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	been received. been received in Application	on No		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF		
<u> </u>				
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> </ol>		w / PTO 948) attached		
(a) ☐ including changes required by the Notice of Dranspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date	_	w ( F 10-946) attached		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment o	he drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	summary (PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No. 7.	/Mail Date Amendment/Comment		
Paper No./Mail Date <u>12/12/2005</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance		

Application/Control Number: 10/560,344

Art Unit: 2872

#### REASONS FOR ALLOWANCE

Page 2

The following is an examiner's statement of reasons for allowance:

Claims 1-6 and 10-16 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the optical chopper moving the optical axes in a same traveling direction, by substantially a same traveling distance as, and in synchronization with the information recording region as set forth in the claimed combination.

Claims 7-9 and 17 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest the chopper lens wherein the exit optical axis of the laser beam incident from the one surface is refracted so as to take a fixed position in the rotational direction in a specific plane disposed on the other surface as set forth in the claimed combination.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Davis (US 5,454,048): The reference teaches a chopper disc having masks.

Art Unit: 2872

Everett et al. (US 2006/0072424 A1): The reference teaches a chopper disc having phase shifters.

Page 3

Plankenhorn et al. (US 4,828,384): The reference teaches a slotted Optical chopper.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fayez G. Assaf whose telephone number is (571) 272-2307. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone Allen can be reached on (571) 272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/560,344 Page 4

Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Fayez G. Assaf/ Primary Examiner, Art Unit 2872

March 1, 2008